

Amendments to the Specification:

Please replace paragraph [0036] with the following amended paragraph:

[0036] In the device in accordance with the invention, the flow channel 42 (volute) is folded down in the axial direction and therefore aligned in the direction of the second housing part 16 of the electric motor 18. (Normally, in the case of corresponding prior art compressors, the volute is adjacent above a radial diffuser, but pointed towards the induction side.) The flow channel 42 in accordance with the exemplary embodiment in Figure 1 is embodied in the second housing part 16 of the compressor 10, which is adjacent in the axial direction to the compressor impeller. The second housing part 16, which encloses the electric motor 18 driving the compressor, consists advantageously of a good heat-conducting material. In particular, this housing can be manufactured of a metal, e.g., aluminum. This housing part includes the flow channel 42 and a support 52 for an electronic components 54 (~~electronics compartment~~) of the drive system. In the process, the air flowing by in the flow channel 42 cools, for one, the electric motor 18 via the diffuser ring 19 and secondly also the electronic components 54 in the ~~electronics compartment~~ 52 compartment 54.

Please replace paragraph [0040] with the following amended paragraph:

[0040] The lower part of the flow channel 42 facing the electric motor 18 is worked out in the housing part 15 or 19. For manufacturing-related reasons, the housing 16 is embodied of several parts. The housing part 15 also includes the support 52 for the electronic components for the motor triggering. The high air mass flow in the flow channel 42 provides for optimal cooling of the metal body 50 of the housing part 15. The good thermal conductivity of the metal therefore provides for good cooling of the electronics ~~compartment~~ 52 compartment 54, which is embodied in the second housing part 15. In addition, the driving motor 18 with its housing 17, which is enclosed in the radial direction by the housing part 15, is also cooled by the metal body 50.

Please replace paragraph [0041] with the following amended paragraph:

[0041] Electronic components 54 of the power electronics are attached advantageously to trigger the electric motor 18 or to operate the compressor 10 in thermal contact with the metal body 50. In this case, the electronic components and particularly the power semiconductors generating high power dissipation can be fastened directly to the housing part 15 with or even without heat conducting means. In this way, it is possible to realize good thermal transmission, i.e. a high heat flow from the electronic components 54 into the air that is located in the flow channel 42. The electronics ~~compartment 52~~ compartment 54 has a cover 56, which if need be can provide for corresponding openings in its outer side 57 for additional heat exchange with the environment. In addition, as already described, the housing part 17 of the electric motor is strongly coupled thermally to the diffuser ring 19 and the housing part 15 so that the heat produced by the motor can be dissipated well in this way.